

A SPECTROSCOPIC SYSTEM EMPLOYING A PLURALITY OF DATA TYPES

Abstract

A system and method for classifying specimens using a plurality of spectral data types. Spectra are recorded as amplitudes at a series of discrete wavelengths. Pluralities of reference spectra are recorded for specimens having known conditions. A spectrum of a first type is observed for a test specimen. The specimen is characterized as to a first known condition. In the event that the specimen does not exhibit the first known condition, a spectrum of a second type is observed and analyzed to determine which of a plurality of conditions is to be ascribed to the test specimen. In some embodiments, the test specimen can comprise human cervical tissue, and the known conditions can include normal health, metaplasia, CIN I and CIN II/III.

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